0300/0590 #10



ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/811,367B

DATE: 03/26/2002 TIME: 16:17:46

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3 <110> APPLICANT: GEMINI SCIENCE, INC.
             Takahashi, Nobuaki
             Mikayama, Toshifumi
     7 <120> TITLE OF INVENTION: SOLUBLE MAST CELL FUNCTION ASSOCIATED ANTIGEN (MAFA)
             PHARMACEUTICAL COMPOSITIONS AND METHODS OF MAKING AND USING THEM
    10 <130> FILE REFERENCE: 021286/0278719
    12 <140> CURRENT APPLICATION NUMBER: 09/811,367B
C--> 13 <141> CURRENT FILING DATE: 2002-03-12
    15 <150> PRIOR APPLICATION NUMBER: 60/190,716
    16 <151> PRIOR FILING DATE: 2000-03-17
    18 <160> NUMBER OF SEQ ID NOS: 20
    20 <170> SOFTWARE: PatentIn version 3.0
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    23 <211> LENGTH: 189
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    25 <213> ORGANISM: Homo sapiens
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    32 Gln Ala Gln Asn Asp Tyr Gly Pro Gln Gln Lys Ser Ser Ser Lys
    35 Pro Ser Cys Ser Cys Leu Val Ala Ile Thr Leu Gly Leu Leu Thr Ala
    36 35
                                   40
    38 Val Leu Leu Ser Val Leu Leu Tyr Gln Trp Ile Leu Cys Gln Gly Ser
                               55
    41 Asn Tyr Ser Thr Cys Ala Ser Cys Pro Ser Cys Pro Asp Arg Trp Met
                           70
                                               75
    44 Lys Tyr Gly Asn His Cys Tyr Tyr Phe Ser Val Glu Glu Lys Asp Trp
    47 Asn Ser Ser Leu Glu Phe Cys Leu Ala Arg Asp Ser His Leu Leu Val
                   100
                                       105
    50 Ile Thr Asp Asn Gln Glu Met Ser Leu Leu Gln Val Phe Leu Ser Glu
              115
                                   120
    53 Ala Phe Cys Trp Ile Gly Leu Arg Asn Asn Ser Gly Trp Arg Trp Glu
                               135
    56 Asp Gly Ser Pro Leu Asn Phe Ser Arg Ile Ser Ser Asn Ser Phe Val
                           150
                                               155
    59 Gln Thr Cys Gly Ala Ile Asn Lys Asn Gly Leu Gln Ala Ser Ser Cys
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                                           170
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    66 <210> SEQ ID NO: 2
    67 <211> LENGTH: 570
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/811,367B

DATE: 03/26/2002
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Input Set : A:\PTO.VSK.txt

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69 <213> ORGANISM: Homo sapiens
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                                                                          120
77 ataactttgg ggettetgae tgeagttett etgagtgtge tgetatacea gtggateetg
                                                                          180
79 tgccaggget ccaactacte caettgtgee agetgteeta getgeecaga eegetggatg
                                                                          240
81 aaatatggta accattgtta ttatttctca gtggaggaaa aggactggaa ttctagtctg
                                                                          300
83 gaattetgee tageeagaga eteacacete ettgtgataa eggaeaatea ggaaatgage
                                                                          360
85 ctqctccaaq ttttcctcaq tqaqqccttt tqctqqattq qtctqaqqaa caattctqqc
                                                                          420
87 tgqaqqtqqq aagacqqatc acctctaaac ttctcaagga tttcttctaa tagctttgtg
                                                                          480
89 cagacatgcg gtgccatcaa caaaaatggt cttcaagcct caagctgtga agttccttta
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91 cacggggtgt gtaagaaggt cagactttga
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96 <211> LENGTH: 188
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98 <213> ORGANISM: Mus musculus
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106
                20
                                    25
108 Pro His Leu Ser Arg Phe Ala Met Val Ala Leu Gly Leu Leu Thr Val
                                40
111 Ile Leu Met Ser Leu Leu Met Tyr Gln Arg Ile Leu Cys Cys Gly Ser
112
114 Lys Asp Ser Thr Cys Ser His Cys Pro Ser Cys Pro Ile Leu Trp Thr
115 65
                        70
                                            75
117 Arg Asn Gly Ser His Cys Tyr Tyr Phe Ser Met Glu Lys Lys Asp Trp
118
                                        90
120 Asn Ser Ser Leu Lys Phe Cys Ala Asp Lys Gly Ser His Leu Leu Thr
                                    105
123 Phe Pro Asp Asn Gln Gly Val Lys Leu Phe Gly Glu Tyr Leu Gly Gln
124
           115
                                120
126 Asp Phe Tyr Trp Ile Gly Leu Arg Asn Ile Asp Gly Trp Arg Trp Glu
       130
                            135
                                                140
129 Gly Gly Pro Ala Leu Ser Leu Arg Ile Leu Thr Asn Ser Leu Ile Gln
                        150
                                            155
132 Arg Cys Gly Ala Ile His Arg Asn Gly Leu Gln Ala Ser Ser Cys Glu
                    165
                                        170
135 Val Ala Leu Gln Trp Ile Cys Lys Lys Val Leu Tyr
136
                180
                                    185
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142 <213> ORGANISM: Mus musculus
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148 atttggtaga gatggctgac agctctatct attcaacact agagctgccg gaggcacctc
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Input Set : A:\PTO.VSK.txt

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                                                                           240
152 qctttgcaat ggtggctttg gggcttttga ctgtgattct catgagtcta ctgatgtatc
                                                                           300
154 aacqqatcct gtgctgcggc tccaaggact ctacatgttc ccactgcccc agctgcccca
156 tcctctggac gaggaatggt agccactgtt actatttttc aatggagaaa aaggactgga
                                                                           360
158 attetagtet gaaattetgt geagacaaag geteacatet eettacattt eeggacaace
                                                                           420
160 aqqqaqtqaa qctqtttqqa qagtacctqq qtcaggactt ttactqgatc ggcttgagga
                                                                           480
162 acattgatgg ctggaggtgg gaaggcggcc cagcgctcag cttgaggatt cttaccaaca
                                                                           540
164 gcttgataca gaggtgcggt gccattcaca gaaatggcct ccaagcctcc agttgtgaag
                                                                           600
166 ttgctttgca gtggatctgt aagaaggtcc tatactgatg gatgccactg tgtcctgagc
                                                                           660
168 ctcqqatctq ccacatqtqt ttaaaaaqaq qqaatqqqtc tqqgqaatct ttgtctacaa
                                                                           720
170 atqtqtqttt aacaaatqcc aaacctqtta tqatatqcca ttaqacaqaq gattaqcata
                                                                           780
172 cctttctggg ggttggcctt ttcctgttgg gctttttccg cgactgttta agtattaggc
                                                                           840
174 tagccattta aagcctaaat ctgggcaaat caaatgataa agcttattta atggataccc
                                                                           900
176 accetgcaga tagccaccet ggetetetea teetteetet gecatetetg teaagagaga
                                                                           960
178 gaaactatca tcctcagaga tgaccctgcg catcaga
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182 <211> LENGTH: 188
183 <212> TYPE: PRT
184 <213> ORGANISM: Rattus norvegicus
186 <400> SEQUENCE: 5
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189 1
                                        10
191 Arq Val Gln Asp Asp Ser Arg Trp Lys Val Lys Ala Val Leu His Arg
                20
                                    25
194 Pro Cys Val Ser Tyr Leu Val Met Val Ala Leu Gly Leu Leu Thr Val
195
            35
197 Ile Leu Met Ser Leu Leu Leu Tyr Gln Arg Thr Leu Cys Cys Gly Ser
198
200 Lys Gly Phe Met Cys Ser Gln Cys Ser Arg Cys Pro Asn Leu Trp Met
                        70
                                            75
203 Arg Asn Gly Ser His Cys Tyr Tyr Phe Ser Met Glu Lys Arg Asp Trp
206 Asn Ser Ser Leu Lys Phe Cys Ala Asp Lys Gly Ser His Leu Leu Thr
207
                100
                                    105
209 Phe Pro Asp Asn Gln Gly Val Asn Leu Phe Gln Glu Tyr Val Gly Glu
210
            115
                                120
212 Asp Phe Tyr Trp Ile Gly Leu Arg Asp Ile Asp Gly Trp Arg Trp Glu
                            135
                                                140
215 Asp Gly Pro Ala Leu Ser Leu Ser Ile Leu Ser Asn Ser Val Val Gln
                        150
                                            155
218 Lys Cys Gly Thr Ile His Arg Cys Gly Leu His Ala Ser Ser Cys Glu
219
                                        170
221 Val Ala Leu Gln Trp Ile Cys Glu Lys Val Leu Pro
222
                180
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224 <210> SEQ ID NO: 6
225 <211> LENGTH: 1461
226 <212> TYPE: DNA
227 <213> ORGANISM: Rattus norvegicus
229 <400> SEQUENCE: 6
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Input Set : A:\PTO.VSK.txt

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	gatggaaggt c						180	
	tggggctttt g						240	
	gctccaaggg c						300	
	ggagccactg t						360	
	gtgcagacaa a					-	420	
245	aggagtatgt g	ggcgaggac	ttttactgga	ttggcttgag	ggacatcgat	ggctggaggt	480	
	gggaagatgg c						540	
	gcaccatcca ca						600	
251	gtgagaaggt c	ctgccctga	aggattccac	tgtgtcccaa	gcctcagatc	tgccacatgt	660	
253	cttcaaaaag a	gggaatggg	catggggaac	ctctgttcac	aaaggtgtct	ttagcaaatg	720	
255	ccaaacctgt ta	atgatatgc	cattagacag	gcgttagcat	tccttcctgg	gagctggcat	780	
257	ttttcaactg g	gctttctca	gtcatgttag	ccatttaaag	cctaaatctg	ggcaaatgaa	840	
259	atagataaaa t	ttattttga	tggctcttac	tgcacaaact	caccctggct	ttctcatccc	900	
261	atactctgcc a	tatctatca	aagatatgtg	caaaactatt	catctgcaga	agaaccccca	960	
263	ccacggtcaa ta	aacacatta	catagacatc	gaatagagac	agaaaagcaa	acacctcctg	1020	
265	ttctcactcc to	gcttggaag	ctgaagtagc	tcaagcctga	ggtgtaggga	gaagtgcagt	1080	
267	ggttaccaga gi	tccaggaga	ctgaagggat	ggtagaggtt	ggttaatggt	ttggctggtg	1140	
269	tggggtgacc at	tcatgatta	atgattgttg	tatgtttgcc	aatatgttgt	gaacttccgg	1200	
271	atagcgaggt g	gaaggaccg	tgggtgttac	caaatgcctg	caggagagat	gtgctgagaa	1260	
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	aatcattatc ta						1380	
	acctttctgc ta						1440	
	aaaaaaaaa aa						1461	
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	<213> ORGANISM: Artificial Sequence							
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RAW SEQUENCE LISTING DATE: 03/26/2002 PATENT APPLICATION: US/09/811,367B TIME: 16:17:46

Input Set : A:\PTO.VSK.txt

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332	atatgo	atatgeggee geteagtata ggaeettett acag					
		SEQ ID NO: 11					
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337	<212>	TYPE: DNA					
338	<213>	ORGANISM: Artificial Sequence					
340	<220>	FEATURE:					
341	<223>	OTHER INFORMATION: Description of Artificial Sequence: Primer					
		SEQUENCE: 11					
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	ctgc						
350	<210>	SEQ ID NO: 12					
351	<211>	LENGTH: 34					
352	<212>	TYPE: DNA					
353	<213>	ORGANISM: Artificial Sequence					
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356	<223>	OTHER INFORMATION: Description of Artificial Sequence: Primer					
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360	atatgo	eggee geteagtata ggaeettett acag	34				
363	<210>	SEQ ID NO: 13					
364	<211>	LENGTH: 73					
365	<212>	TYPE: DNA					
366	<213>	ORGANISM: Artificial Sequence					
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		SEQUENCE: 13					
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	cctcaagtcc aag 7						
		SEQ ID NO: 14					
		LENGTH: 66					
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		ORGANISM: Artificial Sequence					
		FEATURE:					
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	gatcca						
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/811,367B

DATE: 03/26/2002 TIME: 16:17:47

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